

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P00161PCT	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">FOR FURTHER ACTION</div> <div style="font-size: small;">see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</div> </div>	
International application No. PCT/FI 98/00971	International filing date (<i>day/month/year</i>) 11 December 1998	(Earliest) Priority Date (<i>day/month/year</i>) 12 December 1997
Applicant Nokia Telecommunications OY et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☐ Certain claims were found unsearchable (See Box I).

2. ☐ Unity of invention is lacking (See Box II).

3. ☐ The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing

☐ filed with the international application.
☐ furnished by the applicant separately from the international application,

☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.

☐ transcribed by this Authority.

4. With regard to the title, ☒ the text is approved as submitted by the applicant.
☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.
☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is:

Figure No. 3

☒ as suggested by the applicant.

☐ None of the figures.

☐ because the applicant failed to suggest a figure.
☐ because this figure better characterizes the invention.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 98/00971

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: H04Q 7/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC6: H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI, PAT, TXTE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
LPX	WO 9837721 A2 (NOKIA TELECOMMUNICATIONS OY), 27 August 1998 (27.08.98), page 3, column 23 - line 25; page 4, line 30 - page 5, line 5; page 7, line 8 - line 28, claims 7-8, 14-15, page 10, line 19 - line 28; page 13, line 28 - line 34	1,19,21,23, 25
P,A	--	2-18,20,22, 24

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

10 June 1999

Date of mailing of the international search report

15-06-1999

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 98/00971

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 9837722 A1 (TELEFONAKTIEBOLAGET LM ERICSSON), 27 August 1998 (27.08.98), page 1, line 19 - line 22; page 4, line 29 - page 5, line 6; page 9, line 10 - line 14, claims 1,7, page 10, line 24 - page 11, line 2; page 11, line 9 - line 19; page 20, line 23 - page 21, line 8; page 21 line 28 - page 22, line 15; page 25, line 20 - line 29	1,16,19,21, 23,25
P,A	--	2-15,17-18, 20,22,24
X	WO 9607277 A2 (NOKIA TELECOMMUNICATIONS OY), 7 March 1996 (07.03.96), page 5, line 9 - line 26; page 6, line 21 - line 30; page 9, line 18 - line 27, page 10, line 31 - page 11, line 4; page 13, line 34 - page 14, line 20; page 14, line 34 - page 15, line 15	1,9,19,21,23
Y	--	2-8,10-18, 20,22,24-25
X	EP 0808036 A2 (TRW INC.), 19 November 1997 (19.11.97), column 5, line 58 - column 6, line 4; column 6, line 14 - line 23; column 7, line 43 - line 52	1,9,19,21
Y	--	2,12,20,22, 24
Y	WO 9511577 A1 (NOKIA TELECOMMUNICATIONS OY), 27 April 1995 (27.04.95), page 12, line 7 - page 13, line 2, claims 9-10	2-8
Y	--	2,4-5,8
Y	WO 9528063 A2 (NOKIA TELECOMMUNICATIONS OY), 19 October 1995 (19.10.95), page 6, line 21 - line 31; page 13, line 19 - line 22; page 20, line 14 - line 22, claims 10,12-13	
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 98/00971

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5548816 A (DAVID B. DEVANEY), 20 August 1996 (20.08.96), column 8, line 17 - line 24; column 10, line 42 - line 49; column 10, line 58 - column 11, line 4; figure 13, claims 19,25,28, column 12, line 22 - line 30	8,12-14, 16-18,20,22, 24
A	--	6-7,10,15
Y	US 5305466 A (MASANORI TAKETSUGU), 19 April 1994 (19.04.94), claims 6,10	6-7
A	--	2
Y	WO 9713387 A1 (TELIA AB), 10 April 1997 (10.04.97), page 2, line 26 - page 3, line 4; page 5, line 26 - line 28; page 7, line 10 - line 12	10-11,15
A	--	16
A	WO 9639000 A1 (TELEFONAKTIEBOLAGET LM ERICSSON), 5 December 1996 (05.12.96), abstract	10,18

INTERNATIONAL SEARCH REPORT

Information on patent family members

03/05/99

International application No.

PCT/FI 98/00971

Patent document cited in search report			Publication date	Patent family member(s)			Publication date
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